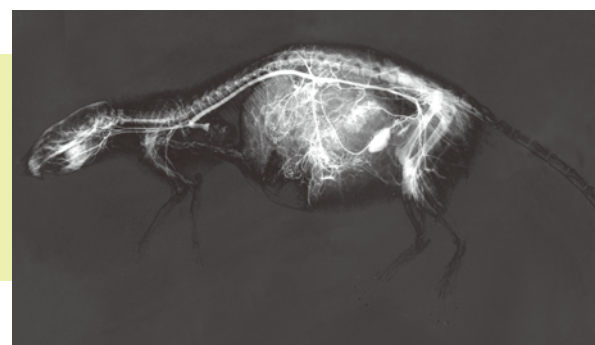


## Applications for medical science

- Inspection of bones and cartilages for small animals etc.
- Inspection of extracted internal organs (Cancer tissues etc.)
- Researches for basic medicine, pathology, anatomy, surgery, oral surgery, pharmacology, radioactive therapeutics.
- Verification of safety of medicines.
- Inspection of result of medicines.
- Irradiation on blood, cell, marrow etc.

## Representative type of apparatus

CMB-2 / CSM-2 / CMR / M-80WE / M-150WE / OTHERS



## Image processing and auto-measurement system

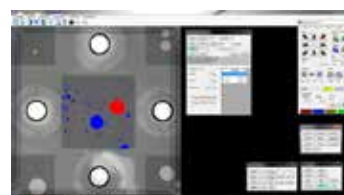
### SOFTEX ZET series

This software can be measured percentage of voids area of semiconductor I • C, wire sweep and BGA solder ball area on the X-ray TFT monitor.

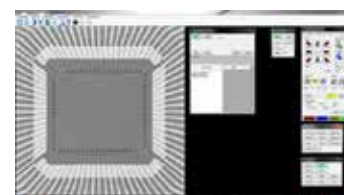
Measuring result are converted automatically into actual dimensions coupled with height of the Z axis of working stage, and displayed on the monitor with statistics all of which can be filled.



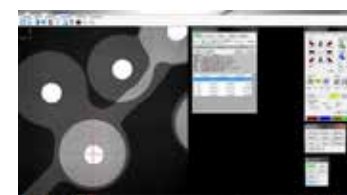
BGA solder ball measurement



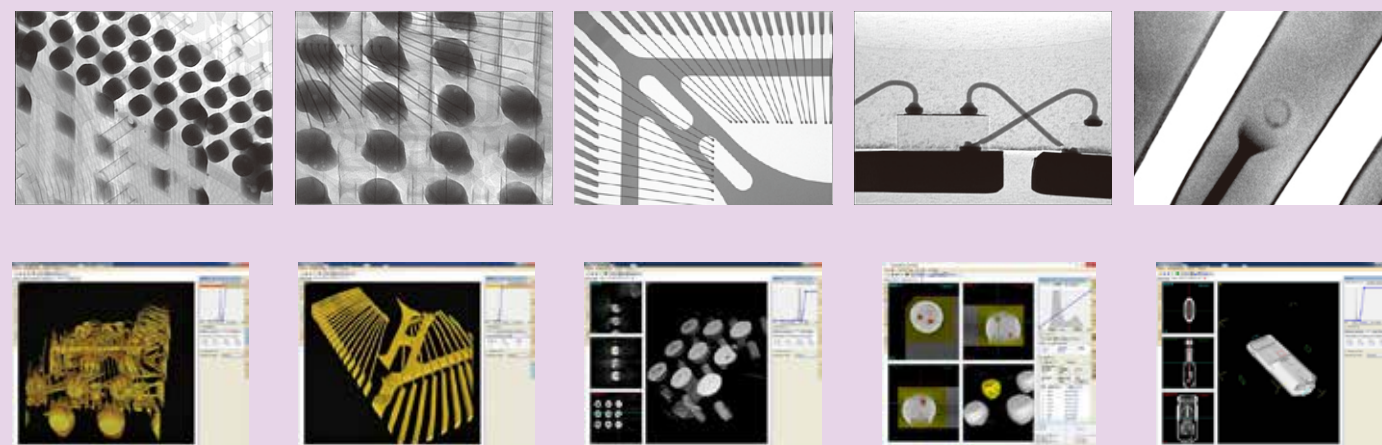
Area measurement



Wire sweep measurement



displacement measurement



## CUSTOMER SUPPORT

You can consult anything with SOFTEX staff who specialized in the apparatus. We have also "System laboratory service", where we provide you trial and training.

※Published specifications and product appearance are subject to change without notice.

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# SINCE 1928



**SOFTEX CO., LTD.**









**ALLOWS MEDICAL SCIENTISTS TO STUDY  
THE HUMAN BODY'S INTERNAL STRUCTURES.**

**PROVIDES ENGINEERS WITH THE ESSENTIAL KNOWLEDGE  
OF INDUSTRIAL MATERIALS.**

**ENABLES SCIENTISTS TO INSTRUCT CLEARLY  
THE ATOMIC INTERIOR STRUCTURES.**



# EXCEPTIONAL QUALITY      SOPHISTICATED      ADVANCED DESIGN

LINEUP	FEATURE	MAIN SPECIFICATION	LINEUP	FEATURE	MAIN SPECIFICATION
<b>SFX series</b> <b>WORK LEADER series</b> 	<ul style="list-style-type: none"> <li>● High quality micro focus X-ray generator is equipped to acquire sharp and clear image by both low and high magnification.</li> <li>● SOFTEX original micro focus X-ray generator is equipped. &lt;WORK-LEADR901 &amp; 905&gt;</li> <li>● Sharp and clear image of minute defects in the BGA · CSP · and electric devices, voids and cracks in packages can be visualized in real time</li> </ul>	<b>OUTPUT</b> MAX Tube Voltage · Current SFX-90 & WORK-LEADER90 : 90KV 0.2mA SFX-100 & WORK-LEADER100 : 100KV 0.1mA SFX-130 : 130KV 0.3mA SFX-150 : 150KV 0.5mA <b>Detector</b> Soft X-ray I·I + Digital CCD (1.0Mg pixel). <b>Total resolution</b> About 3~5μm	<b>SX series</b> <b>SX-103 · 104</b> 	<ul style="list-style-type: none"> <li>● Specialized print circuit board (PCB) inspection model.</li> <li>● Compact design with high performance.</li> <li>● Intelligent image processor and video graphic printer equipped as standard.</li> <li>● High resolution X-ray CCD camera</li> <li>● Equipped pattern displacement measurement.</li> <li>● High performance micro focus X-ray generator is equipped. &lt;SX-104 only&gt;</li> </ul>	<b>OUTPUT</b> MAX Tube Voltage · Current SX-103 : 60KV 2mA (mm focus tube) SX-104 : 70KV 0.1mA (micro focus tube) <b>Detector</b> SX-103 : Soft X-ray CCD camera. SX-104 : Soft X-ray I · I + Digital CCD (1.0mg pixel). <b>Total resolution</b> SX-103 : About 25μm SX-104 : About 7μm
<b>Open type generator</b> <b>SFX-110 · SFX-160</b> 	<ul style="list-style-type: none"> <li>● Open type X-ray generator.</li> <li>● X-ray focus size about 0.4μm.</li> <li>● Sharp and high contrast image can be realized on wide range of magnification.</li> <li>● Auto focusing and Auto centering for easy beam adjustment.</li> <li>● Auto aging can allow simple and easy warming up of X-ray system.</li> </ul>	<b>OUTPUT</b> MAX Tube Voltage · Current SFX-110G : 110KV 0.1mA SFX-160G : 160KV 0.2mA <b>Filament Life</b> SFX-110 : About 1500 hour SFX-160 : About 500 hour <b>Detector</b> Soft X-ray I·I + Digital CCD (1.0Mg pixel). <Beryllium window type> <b>Total resolution</b> S mode : About 0.25μm W mode : About 0.8μm	<b>VIX series</b> 	<ul style="list-style-type: none"> <li>● X-ray image intensifier tube (I·I camera) provides wide visible area and fine image.</li> <li>● Both real time X-ray image on TFT monitor and X-ray radiography can be selectable.</li> <li>● UP to 25.4×30.5cm X-ray film available</li> <li>● Full wave rectification and fine small focus brings high contrast and sharp X-ray image.</li> <li>● Output 100, 125 and 150KV selectable on request.</li> </ul>	<b>OUTPUT</b> MAX Tube Voltage : 100~150KV MAX Tube Current : 3mA <b>Detector</b> Camera Type : 4~12inch inch I·I + CCD Visible Area : Φ100~Φ300mm <b>Total resolution</b> More then 2.5Lp/mm
<b>Micro focus X-ray</b> <b>SHR-series</b> 	<ul style="list-style-type: none"> <li>● SOFTEX original Micro-focus X-ray generator realize reducing running cost.</li> <li>● Super resolution image by FPD</li> <li>● Multipurpose non-destructive inspection is available by FPD declination.</li> <li>● Improved usability High speed image capturing and mapping function.</li> <li>● Optional function CT scan system , Auto judgment software</li> </ul>	<b>OUTPUT</b> MAX Tube Voltage · Current SHR-90 : 90KV 0.1mA SHR-100 : 100KV 0.1mA <b>Detector</b> Soft X-ray Flat-Panel-Detector <b>Detector Angle</b> +60Degree <b>Total resolution</b> About 5μm	<b>Micro Focus CT system</b> <b>SFX-130 · 160 CT</b> 	<ul style="list-style-type: none"> <li>● Realizes high image quality and accurate internal inspection.</li> <li>● Resolution is twice as before.</li> <li>● With micro focus X-ray System.</li> <li>● SOFTEX CT system</li> <li>● Various optional measurement functions.</li> </ul>	<b>OUTPUT</b> MAX Tube Voltage · Current : 130KV 0.1mA or 160KV 0.1mA <b>Detector</b> Soft X-ray X-ray I·I + Digital CCD (1.0Mg pixel). <b>CT system</b> Scan type : Offset / 180° / 360° <b>Total resolution</b> About 7μm
<b>Micro focus X-ray</b> <b>EMT -F &lt;FPD&gt;</b> <b>Desk top Machine</b> 	<ul style="list-style-type: none"> <li>● High performance micro focus X-ray generator is equipped.</li> <li>● Equips high resolution X-ray system &amp; Flat-Panel-Detector.</li> <li>● Desk top type</li> <li>● Realize clear image without a skewness.</li> </ul>	<b>OUTPUT</b> MAX Tube Voltage · Current : 70KV 0.1mA <b>Detector</b> Soft X-ray Flat-Panel-Detector. <b>Total resolution</b> About 10μm	<b>Micro focus X-ray</b> <b>EMT-J &lt;I·I CCD&gt;</b> <b>Compact Machine</b> 	<ul style="list-style-type: none"> <li>● High performance micro focus X-ray generator is equipped.</li> <li>● Equips high resolution X-ray system I·I + Digital CCD (1.0mg pixel)</li> <li>● Compact type</li> <li>● Realize clear image without a skewness.</li> </ul>	<b>OUTPUT</b> MAX Tube Voltage · Current : 70KV 0.1mA <b>Detector</b> Soft X-ray I · I + Digital CCD (1.0Mg pixel). <b>Total resolution</b> About 10μm